Federal Trade Commission Report

"TAR", NICOTINE AND CARBON MONOXIDE OF THE SMOKE OF 207 VARIETIES OF DOMESTIC CIGARETTES

JANUARY 1985

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REPORT OF "TAR", NICOTINE AND CARBON MONOXIDE OF THE SMOKE OF 207 VARIETIES OF DOMESTIC CIGARETTES

JANUARY 1985

The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter), total alkaloid (reported as nicotine) and carbon monoxide content of 207 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement July 31, 1967 and July 10, 1980:

1. Smoke cigarettes to a 23mm. butt length, or to the length of the filter and overwrap plus 3mm. if in excess of 23mm.

2. Base results on a test of approximately 90 cigarettes per brand, or type.

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C.H. Sloan and B.J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F.J. Schlutz' and A.W. Spears' report published in Tobacco, vol. 162, no. 24, page 32, date June 17, 1966, to determine the moisture content.

5. Determine and report "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

6. Carbon monoxide is determined by non-dispersal infrared spectrophotometer.

Concerning the 207 varieties tested, 15 were capable of being smoked to 23mm. The butt length of the other 192 varieties tested ranged from 24.6mm. to an average of between 43.0 to 44.1mm. The butt length of 165 of the 207 varieties tested exceeded 30mm.

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The samples used were obtained by attempting to purchase two packages of each variety of cigarettes as distributed by domestic cigarette manufacturers during October 1983 to January 1984 in each of 50 geographic locations throughout the country. Not all varieties were available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 207 varieties of cigarettes as available throughout the country at the time of purchase.

In the table listing the cigarette varieties in alphabetical order "tar" and carbon monoxide content is reported to the nearest 0.1 milligram and the nicotine to the nearest 0.01 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 0.1 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated. The "tar" and carbon monoxide figures have been rounded to the nearest milligram (0.5 milligrams and greater rounded up, 0.4 milligrams and less rounded down) and the nicotine figures have been rounded to the nearest tenth of a milligram (0.05 milligrams and greater rounded up, 0.04 milligrams and less rounded down). Three tables respectively list varieties in increasing order of "tar" values, in increasing order of nicotine values and in increasing order of carbon monoxide values. Accordingly, "tar", nicotine and carbon monoxide figures in the tables represent rounded off averages without indication of their precision.

It should be noted that cigarette brands with assay results for "tar" and carbon monoxide below 0.5 mg. per cigarette and for nicotine below 0.05 mg. per cigarette are recorded in the accompanying tables with asterisks (*) indicating that they are below 0.5 mg. "tar", 0.05 mg. nicotine and 0.5 mg. carbon monoxide. The tables do not differentiate and no ranking is intended between these cigarettes because the current, approved testing methodology is not sensitive enough to differentiate between cigarettes at these levels.

On April 13, 1983, the Commission announced its determination that its present testing methodology for "tar", nicotine and carbon monoxide does not measure accurately Brown & Williamson's Barclay cigarettes and in fact understates the measured deliveries of these products. Therefore, it announced that until it adopts a new testing methodology that is able to measure Barclay cigarettes, future FTC Tar, Nicotine & Carbon Monoxide Reports will not include test results for Barclay cigarettes. As a result, no test results for Barclay cigarettes are included within this report. At that same time the Commission also found that there was significant likelihood that the same problem (namely, an inaccurate reporting of the "tar", nicotine and CO delivery) existed with respect to Kool Ultra and Kool Ultra 100's, two other brands of cigarettes manufactured

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by Brown & Williamson. However, the Commission has not yet reached any conclusion whether Kool Ultra and Kool Ultra 100's are ranked inappropriately. Therefore, two asterisks (**) have been appended to Kool Ultra and Kool Ultra 100's in this report to indicate this continuing controversy.

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TAR NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND TESTED	TYPE CODE	LNGTH TESTD	AVG. WEIGHT	BUTT LENGTH	TPM DRY	NICOTINE CONTENT	CARBON MONOXIDE
ALPINE	F; SP; M	85MM	0.9882	28.0-31.0MM	15.6+0.4	0.95+0.03	14.2+0.5
BELAIR	F; SP; M	85MM	0.8046	32.4-34.7MM	10.0+0.3	0.74+0.02	9.5+0.4
BELAIR 100	F; SP; M	100MM	1.0729	38.2-40.1MM	8.0+0.3	0.61+0.02	7.5+0.4
BENSON & HEDGES	R; F; HP	70MM	0.9642	31.3-35.2MM	1.2+0.1	0.07+0.01	1.5+0.2
BENSON & HEDGES	F; HP	85MM	1.0027	32.2-33.4MM	14.8+0.3	1.10+0.03	11.6+0.6
BENSON & HEDGES 100	F; HP	100MM	1.1087	34.2-35.8MM	15.8+0.4	1.02+0.02	14.7+0.6
BENSON & HEDGES 100	F; HP; M	100MM	1.1228	34.2-35.7MM	16.1+0.4	1.01+0.03	14.5+0.4
BENSON & HEDGES 100	F; SP	100MM	1.1234	35.8-37.0MM	15.9+0.3	1.03+0.02	14.9+0.5
BENSON & HEDGES 100	F; SP; M	100MM	1.1256	34.1-35.9MM	15.7+0.3	1.04+0.03	15.1+0.4
BENSON & HEDGES LIGHTS 100	F; SP	100MM	1.1040	37.8-40.8MM	10.1+0.3	0.73+0.03	11.2+0.4
BENSON & HEDGES LIGHTS 100	F; SP; M	100MM	1.1180	38.1-39.8MM	9.6+0.2	0.70+0.02	10.1+0.3
BENSON & HEDGES ULTRA LIGHTS	F; HP	100MM	0.9846	38.0-40.6MM	5.0+0.3	0.40+0.02	5.2+0.4
BENSON & HEDGES ULTRA LIGHTS	F; HP; M	100MM	1.0103	38.2-40.0MM	5.2+0.2	0.42+0.01	5.3+0.3
BRIGHT	F; SP; M	85MM	0.8858	34.1-35.7MM	6.1+0.3	0.52+0.02	7.1+0.4
BRIGHT 100	F; SP; M	100MM	1.0768	39.1-40.0MM	6.0+0.3	0.52+0.02	7.4+0.5
BULL DURHAM	F; SP	85MM	1.1971	25.6-28.9MM	27.7+0.4	1.83+0.05	23.0+0.5
CAMBRIDGE	F; HP	85MM	0.8878	38.2-39.7MM	*	*	*
CAMBRIDGE	F; SP	85MM	0.8415	34.6-36.0MM	0.8+0.1	0.08+0.01	1.0+0.2
CAMBRIDGE 100	F; SP	100MM	0.9802	38.7-40.1MM	4.7+0.2	0.44+0.02	5.5+0.3
CAMEL	R; NF; SP	70MM	0.8360	23.0MM	21.2+0.5	1.40+0.04	12.9+0.4
CAMEL	F; HP	80MM	0.9016	25.7-26.8MM	18.1+0.3	1.08+0.03	14.6+0.4
CAMEL	F; SP	85MM	0.9554	27.3-29.2MM	15.6+0.3	1.07+0.03	14.3+0.3
CAMEL LIGHTS	F; HP	80MM	0.9260	28.5-31.0MM	6.8+0.3	0.69+0.04	8.4+0.5
CAMEL LIGHTS	F; SP	85MM	0.9577	32.5-34.7MM	8.3+0.3	0.66+0.02	10.1+0.4
CAMEL LIGHTS 100	F; SP	100MM	1.1193	36.2-38.1MM	11.5+0.4	0.83+0.03	13.7+0.5
CARLTON	F; HP	85MM	0.8333	37.0-41.4MM	*	*	*
CARLTON	F; SP	85MM	0.7767	33.0-35.1MM	1.3+0.1	0.11+0.01	1.6+0.2
CARLTON	F; SP; M	85MM	0.7740	32.0-34.9MM	0.8+0.1	0.07+0.01	0.9+0.1
CARLTON 100	F; HP	100MM	0.9085	37.1-38.1MM	0.6+0.1	0.05+0.01	*
CARLTON 100	F; HP; M	100MM	0.8946	37.9-38.2MM	*	*	*
CARLTON 100	F; SP	100MM	0.9260	33.8-36.9MM	4.6+0.2	0.40+0.02	5.8+0.4
CARLTON 100	F; SP; M	100MM	0.9209	33.9-36.8MM	4.7+0.3	0.41+0.02	5.7+0.5
CARLTON 120	F; SP	120MM	0.9785	36.1-39.0MM	6.8+0.4	0.59+0.02	5.1+0.4
CARLTON 120	F; SP; M	120MM	0.9767	36.7-39.5MM	7.1+0.3	0.62+0.02	5.3+0.4
CENTURY	F; SP	85MM	0.8623	29.7-30.8MM	14.2+0.4	0.94+0.03	15.9+0.5
CENTURY LIGHTS	F; SP	85MM	0.9109	33.8-34.3MM	9.1+0.3	0.69+0.02	10.8+0.2
CHESTERFIELD	R; NF; SP	70MM	0.8504	23.0MM	18.9+0.3	1.22+0.03	11.0+0.3
CHESTERFIELD	NF; SP	85MM	1.0193	23.0MM	22.2+0.5	1.52+0.05	12.6+0.4
DORADO	F; SP	85MM	0.8868	32.9-33.8MM	12.6+0.3	0.90+0.03	11.8+0.4
DORAL II	F; SP	85MM	1.0519	36.2-37.9MM	4.2+0.3	0.38+0.02	3.0+0.3
DORAL II	F; SP; M	85MM	1.0415	36.5-38.3MM	4.3+0.3	0.38+0.02	3.1+0.3
ENGLISH OVALS	R; NF; HP	70MM	0.9265	23.0MM	23.1+0.5	1.75+0.05	11.0+0.4
ENGLISH OVALS	NF; HP	85MM	1.1299	23.0MM	28.0+0.4	2.10+0.06	14.0+0.3
EVE LIGHTS 100	F; HP	100MM	0.8179	37.2-38.9MM	12.0+0.2	0.93+0.02	9.5+0.3
EVE LIGHTS 100	F; HP; M	100MM	0.8257	37.8-38.8MM	12.0+0.3	0.94+0.03	9.5+0.4
EVE LIGHTS 120	F; HP	120MM	0.9668	37.1-39.2MM	14.1+0.4	1.08+0.02	11.2+0.6

1 F-filter; NF-non-filter; M-menthol; R-regular; HP-hard pack; SP-soft pack; mm-millimeter.
2 Average weight reported in grams per cigarette.
3 Range used in butt length because of variance of overwrap.
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.
6 Carbon Monoxide reported as milligrams per cigarette.
+ Tolerance shown is twice the standard deviation.
* Below the sensitivity of the method.
** See statement in text concearning Kool Ultra brands.

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TAR NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND TESTED	TYPE CODE	LNGTH TESTD	AVG. WEIGHT	BUTT LENGTH	TPM DRY	NICOTINE CONTENT	CARBON MONOXIDE
EVE LIGHTS 120	F; HP; M	120MM	0.9583	36.5-39.9MM	13.9+0.5	1.06+0.04	11.2+0.5
GALAXY	F; SP	85MM	1.0467	32.6-33.7MM	13.9+0.3	0.89+0.02	13.3+0.3
HALF & HALF	F; SP	85MM	1.0950	26.4-28.0MM	17.8+0.4	1.28+0.04	17.0+0.4
HERBERT TAREYTON	NF; SP	85MM	1.1500	23.0MM	23.9+0.4	1.50+0.04	15.9+0.3
ICEBERG 100	F; SP; M	100MM	0.9323	34.0-36.5MM	3.5+0.2	0.31+0.01	4.2+0.3
KENT	F; HP	80MM	0.8883	28.0-29.3MM	12.3+0.4	0.87+0.09	11.6+0.5
KENT	F; SP	85MM	0.9316	27.7-29.4MM	11.9+0.4	0.91+0.02	10.4+0.4
KENT 100	F; SP	100MM	1.0293	33.9-36.5MM	12.9+0.4	1.01+0.02	10.7+0.6
KENT 100	F; SP; M	100MM	1.0148	34.8-36.6MM	15.3+0.3	1.25+0.03	13.5+0.4
KENT GOLDEN LIGHTS	F; SP	85MM	0.8658	34.1-36.0MM	8.7+0.3	0.75+0.03	9.0+0.4
KENT GOLDEN LIGHTS	F; SP; M	85MM	0.8615	34.3-35.6MM	8.2+0.2	0.69+0.02	7.8+0.4
KENT GOLDEN LIGHTS 100	F; SP	100MM	1.0182	36.6-39.9MM	9.3+0.5	0.84+0.03	9.6+0.6
KENT GOLDEN LIGHTS 100	F; SP; M	100MM	1.0252	37.0-39.0MM	9.1+0.4	0.79+0.03	9.2+0.4
KENT III	F; SP	85MM	0.8437	34.1-35.9MM	2.6+0.2	0.29+0.02	2.2+0.2
KENT III 100	F; SP	100MM	0.9796	37.0-39.0MM	4.1+0.2	0.42+0.01	4.8+0.3
KOOL	R;NF;SP;M	70MM	0.8395	23.0MM	20.2+0.5	1.23+0.04	14.0+0.5
KOOL	F; HP; M	80MM	0.8872	24.6-27.0MM	15.9+0.4	1.08+0.04	14.6+0.4
KOOL	F; SP; M	85MM	0.9067	28.1-30.5MM	16.3+0.3	1.04+0.03	13.8+0.3
KOOL LIGHTS	F; SP; M	85MM	0.9179	33.3-35.9MM	8.5+0.3	0.65+0.05	9.2+0.3
KOOL LIGHTS 100	F; SP; M	100MM	1.0654	34.8-37.0MM	9.0+0.3	0.70+0.03	8.7+0.4
KOOL MILDS	F; SP; M	85MM	0.8888	31.8-34.6MM	10.2+0.4	0.73+0.04	10.7+0.4
KOOL MILDS 100	F; SP; M	100MM	1.0720	39.0-42.1MM	11.2+0.3	0.82+0.03	12.1+1.3
KOOL SUPER LONGS 100	F; SP; M	100MM	1.0525	34.2-35.8MM	14.1+0.3	0.88+0.03	15.3+0.4
KOOL ULTRA	F; SP; M	85MM	0.8933	33.4-35.9MM	1.5+0.3	0.13+0.03	0.9+0.2
KOOL ULTRA 100	F; SP; M	100MM	1.0771	39.7-41.2MM	4.1+0.3	0.38+0.03	2.7+0.4
L & M	F; HP	80MM	0.8388	28.5-30.1MM	13.4+0.3	0.92+0.03	12.8+0.4
L & M	F; SP	85MM	0.8884	32.0-34.1MM	13.1+0.4	0.91+0.03	12.5+0.5
L & M 100	F; SP	100MM	0.9783	35.9-39.6MM	13.6+0.4	0.98+0.03	13.0+0.4
L & M LIGHTS	F; SP	85MM	0.8507	32.8-34.0MM	8.0+0.3	0.74+0.03	6.8+0.4
L & M LIGHTS 100	F; SP	100MM	0.9530	36.4-39.7MM	8.5+0.3	0.83+0.02	6.1+0.4
LARK	F; SP	85MM	0.9563	32.4-34.6MM	13.9+0.3	0.92+0.02	13.2+0.5
LARK 100	F; SP	100MM	1.1186	37.0-39.0MM	14.9+0.3	0.99+0.03	14.6+0.5
LARK LIGHTS	F; SP	85MM	0.9708	33.0-35.8MM	12.8+0.3	0.89+0.03	12.1+0.3
LARK LIGHTS 100	F; SP	100MM	1.1122	36.8-40.0MM	13.3+0.3	0.97+0.02	13.2+0.3
LUCKY STRIKE	R; NF; SP	70MM	0.8857	23.0MM	23.3+0.6	1.37+0.04	16.4+0.5
LUCKY STRIKE	F; HP	80MM	0.9395	31.8-35.9MM	10.5+0.4	0.77+0.03	10.3+0.4
LUCKY STRIKE	F; SP	85MM	0.9231	33.0-35.0MM	10.5+0.3	0.80+0.03	9.9+0.4
LUCKY STRIKE 100	F; SP	100MM	1.1325	34.5-36.1MM	10.9+0.3	0.86+0.02	10.2+0.4
MARLBORO	F; HP	80MM	0.9311	26.3-28.0MM	16.1+0.3	0.97+0.02	14.0+0.4
MARLBORO	F; SP	85MM	0.9810	37.9-40.0MM	16.0+0.4	1.00+0.03	14.5+0.5
MARLBORO	F; SP; M	85MM	0.9807	28.9-30.7MM	15.6+0.4	0.96+0.03	14.1+0.3
MARLBORO 100	F; HP	100MM	1.1183	35.0-36.8MM	16.0+0.3	1.05+0.02	14.4+0.4
MARLBORO 100	F; SP	100MM	1.1325	35.0-36.0MM	16.3+0.4	1.05+0.04	15.0+0.5
MARLBORO LIGHTS	F; HP	85MM	0.9542	34.2-36.0MM	10.1+0.3	0.69+0.02	10.8+0.3
MARLBORO LIGHTS	F; SP	85MM	0.9433	33.9-35.7MM	10.2+0.2	0.68+0.02	10.8+0.4
MARLBORO LIGHTS 100	F; SP	100MM	1.1001	39.1-41.0MM	10.1+0.3	0.71+0.02	11.1+0.3

1 F-filter; NF-non-filter; M-menthol; R-regular; HP-hard pack; SP-soft pack; mm-millimeter.
2 Average weight reported in grams per cigarette.
3 Range used in butt length because of variance of overwrap.
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.
6 Carbon Monoxide reported as milligrams per cigarette.
+ Tolerance shown is twice the standard deviation.
* Below the sensitivity of the method.
** See statement in text concerning Kool Ultra brands.

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BRAND TESTED	TYPE CODE	LNGTH TESTD	AVG. WEIGHT	BUTT LENGTH	TPM DRY	NICOTINE CONTENT	CARBON MONOXIDE
MAX 120	F; SP	120MM	1.0100	36.8-38.4MM	18.2+0.3	1.40+0.04	17.2+0.6
MAX 120	F; SP; M	120MM	0.9951	38.0-40.1MM	18.7+0.3	1.44+0.03	17.1+0.6
MERIT	F; SP	85MM	0.9769	36.1-37.6MM	7.6+0.3	0.52+0.02	9.1+0.5
MERIT	F; SP; M	85MM	0.9917	35.8-36.5MM	7.9+0.3	0.54+0.02	9.5+0.5
MERIT 100	F; SP	100MM	1.1195	37.0-41.3MM	10.3+0.3	0.71+0.02	11.6+0.5
MERIT 100	F; SP; M	100MM	1.1111	39.8-41.9MM	9.4+0.4	0.67+0.02	10.6+0.5
MERIT ULTRA LIGHTS	F; SP	85MM	0.8956	35.0-36.8MM	4.9+0.4	0.38+0.03	5.3+0.5
MERIT ULTRA LIGHTS	F; SP; M	85MM	0.9128	34.2-35.8MM	4.7+0.5	0.37+0.02	5.0+0.7
MERIT ULTRA LIGHTS 100	F; SP	100MM	1.0434	38.5-40.1MM	5.1+0.3	0.43+0.01	6.4+0.5
MERIT ULTRA LIGHTS 100	F; SP; M	100MM	1.0513	38.1-40.2MM	4.1+0.2	0.35+0.02	4.4+0.3
MONTCLAIR	F; SP; M	85MM	0.9023	25.9-28.2MM	14.7+0.4	0.98+0.03	15.2+0.5
MORE 120	F; SP	120MM	1.0297	43.0-44.1MM	16.8+0.4	1.19+0.03	20.4+0.4
MORE 120	F; SP; M	120MM	1.0375	41.0-42.2MM	16.0+0.3	1.21+0.02	18.8+0.4
MORE LIGHTS 100	F; HP	100MM	0.9140	37.0-38.7MM	8.0+0.4	0.65+0.02	7.7+0.5
MORE LIGHTS 100	F; HP; M	100MM	0.8550	36.0-40.1MM	7.6+0.3	0.61+0.02	8.4+0.4
MULTIFILTER	F; SP	85MM	1.1379	31.0-33.9MM	12.1+0.4	0.77+0.02	10.5+0.4
MULTIFILTER	F; SP; M	85MM	1.1405	32.2-33.9MM	12.2+0.3	0.76+0.02	10.2+0.3
NEWPORT	F; HP; M	80MM	0.8776	32.0-34.1MM	15.5+0.4	1.14+0.03	15.4+0.4
NEWPORT	F; SP; M	85MM	0.9247	26.9-30.0MM	16.6+0.4	1.21+0.04	17.2+0.5
NEWPORT 100	F; SP; M	100MM	1.0489	34.1-36.2MM	19.5+0.5	1.46+0.04	19.6+0.5
NEWPORT LIGHTS	F; HP; M	80MM	0.8314	27.6-29.2MM	8.9+0.2	0.72+0.04	9.3+0.4
NEWPORT LIGHTS	F; SP; M	85MM	0.8914	33.2-36.6MM	8.1+0.4	0.70+0.03	8.3+0.5
NEWPORT LIGHTS 100	F; SP; M	100MM	1.0342	36.7-39.1MM	9.5+0.4	0.83+0.03	9.6+0.6
NEWPORT RED	F; HP	80MM	0.8834	32.3-34.1MM	12.1+0.5	0.94+0.03	12.5+0.3
NEWPORT RED	F; SP	85MM	0.9228	32.1-33.8MM	13.7+0.3	1.04+0.03	15.1+0.4
NOW	F; HP	80MM	0.6918	33.2-35.7MM	*	*	*
NOW	F; SP	85MM	0.7984	33.4-38.1MM	1.2+0.1	0.11+0.01	1.5+0.2
NOW	F; SP; M	85MM	0.7986	33.9-38.1MM	1.0+0.2	0.09+0.02	1.2+0.2
NOW 100	F; HP	100MM	0.6656	37.9-38.7MM	*	0.07+0.09	*
NOW 100	F; SP	100MM	0.9543	37.8-38.6MM	2.6+0.2	0.27+0.02	2.4+0.3
NOW 100	F; SP; M	100MM	0.9451	36.8-38.7MM	2.0+0.2	0.24+0.02	1.5+0.2
OLD GOLD FILTER	F; SP	85MM	0.9293	26.8-30.4MM	17.2+0.4	1.25+0.04	18.0+0.5
OLD GOLD FILTER 100	F; SP	100MM	1.0573	31.4-39.0MM	20.2+0.4	1.52+0.05	19.6+0.4
OLD GOLD LIGHTS	F; SP	85MM	0.9049	35.1-36.0MM	9.3+0.4	0.82+0.03	10.0+0.4
OLD GOLD STRAIGHT	NF; SP	85MM	0.9924	23.0MM	25.8+0.4	1.63+0.04	16.6+0.4
PALL MALL	NF; SP	85MM	1.0564	23.0MM	23.1+0.6	1.34+0.04	15.5+0.5
PALL MALL	F; SP	85MM	0.9914	25.5-29.2MM	16.7+0.3	1.11+0.03	16.0+0.5
PALL MALL 100	F; SP	100MM	1.1238	34.2-36.1MM	15.4+0.4	1.09+0.03	15.2+0.5
PALL MALL EXTRA LIGHT	F; SP	85MM	0.9793	31.6-35.0MM	7.0+0.4	0.59+0.02	6.7+0.4
PALL MALL LIGHT 100	F; SP	100MM	1.0946	37.5-39.0MM	9.5+0.4	0.75+0.03	8.9+0.4
PALL MALL LIGHT 100	F; SP; M	100MM	1.0150	34.4-36.2MM	12.4+0.3	0.97+0.03	11.4+0.4
PARLIAMENT LIGHTS	F; HP	80MM	0.9659	32.9-34.0MM	8.6+0.2	0.61+0.02	9.2+0.4
PARLIAMENT LIGHTS	F; SP	85MM	1.0092	33.1-34.6MM	8.7+0.3	0.63+0.02	8.5+0.3
PARLIAMENT LIGHTS 100	F; SP	100MM	1.2415	38.6-40.0MM	11.6+0.3	0.83+0.02	10.7+0.4
PHILIP MORRIS	R; NF; SP	70MM	0.8474	23.0MM	20.8+0.5	1.24+0.03	11.9+0.4
PHILIP MORRIS COMMANDER	NF; SP	85MM	1.0481	23.0MM	25.7+0.5	1.59+0.04	14.3+0.4

1 F-filter; NF-non-filter; M-menthol; R-regular; HP-hard pack; SP-soft pack; MM-millimeter.
2 Average weight reported in grams per cigarette.
3 Range used in butt length because of variance of overwrap.
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.
6 Carbon Monoxide reported as milligrams per cigarette.
+ Tolerance shown is twice the standard deviation.
* Below the sensitivity of the method.
** See statement in text concerning Kool Ultra brands.

PM3001060389

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND TESTED	TYPE CODE	LNGTH TESTD	AVG. WEIGHT	BUTT LENGTH	TPM DRY	NICOTINE CONTENT	CARBON MONOXIDE
PHILIP MORRIS INTERNATIONAL 100	F; HP	100MM	1.1110	34.6-35.7MM	16.8+0.2	1.07+0.02	15.6+0.4
PHILIP MORRIS INTERNATIONAL 100	F; HP; M	100MM	1.1430	34.8-35.2MM	16.7+0.5	1.07+0.03	16.4+0.4
PICAYUNE	R; NF; SP	70MM	0.8577	23.0MM	15.9+0.5	1.00+0.03	12.5+0.7
PLAYERS	R; NF; HP	70MM	1.0707	23.0MM	25.4+0.5	1.90+0.04	14.7+0.4
PLAYERS	F; HP	85MM	0.9611	34.2-36.1MM	11.7+0.4	0.80+0.02	11.1+0.3
PLAYERS	F; HP; M	85MM	0.9444	34.0-36.8MM	11.6+0.3	0.79+0.02	10.8+0.4
PLAYERS 100	F; HP	100MM	1.0269	38.8-40.5MM	13.1+0.4	0.89+0.02	12.0+0.5
PLAYERS 100	F; HP; M	100MM	1.0404	38.0-39.9MM	12.9+0.3	0.87+0.03	11.4+0.3
RALEIGH	NF; SP	85MM	1.0767	23.0MM	24.6+0.7	1.38+0.05	16.5+0.6
RALEIGH	F; SP	85MM	0.9449	28.4-29.9MM	14.9+0.3	0.89+0.03	16.1+0.5
RALEIGH 100	F; SP	100MM	1.1306	34.2-36.4MM	16.0+0.4	1.04+0.03	16.5+0.4
RALEIGH LIGHTS	F; SP	85MM	0.9297	32.0-33.8MM	10.4+0.2	0.76+0.02	10.1+0.4
RALEIGH LIGHTS 100	F; SP	100MM	1.1408	38.2-40.1MM	8.9+0.4	0.69+0.02	9.4+0.5
RICHLAND	F; SP	85MM	0.9246	28.3-29.8MM	15.9+0.3	1.05+0.03	13.2+0.4
RICHLAND	F; SP; M	85MM	0.9129	28.6-29.5MM	15.3+0.4	0.98+0.03	13.4+0.4
SALEM	F; SP; M	85MM	0.9486	27.2-29.5MM	16.0+0.3	1.06+0.03	17.6+0.4
SALEM 100	F; SP; M	100MM	1.1247	33.5-35.4MM	16.0+0.4	1.21+0.04	14.9+0.6
SALEM LIGHTS	F; SP; M	85MM	0.9384	34.2-35.1MM	9.1+0.3	0.70+0.02	10.7+0.4
SALEM LIGHTS 100	F; SP; M	100MM	1.1248	36.5-38.3MM	9.2+0.3	0.74+0.03	10.8+0.3
SALEM SLIM LIGHTS 100	F; HP; M	100MM	0.8823	37.6-39.0MM	8.1+0.3	0.66+0.02	8.7+0.4
SALEM ULTRA	F; SP; M	85MM	0.9064	33.0-34.3MM	5.0+0.3	0.43+0.02	6.4+0.4
SALEM ULTRA 100	F; SP; M	100MM	1.1110	36.2-38.8MM	4.7+0.3	0.42+0.02	5.9+0.4
SARATOGA 120	F; HP	120MM	1.0915	37.1-39.2MM	13.8+0.4	0.94+0.03	13.2+0.6
SARATOGA 120	F; HP; M	120MM	1.1067	37.2-38.9MM	14.0+0.3	0.93+0.02	13.5+0.6
SATIN 100	F; SP	100MM	1.0584	35.0-36.5MM	9.9+0.4	0.85+0.03	10.5+0.5
SATIN 100	F; SP; M	100MM	1.0530	35.1-37.1MM	9.4+0.3	0.82+0.03	10.0+0.4
SILVA THINS 100	F; SP	100MM	0.9411	34.5-37.3MM	10.9+0.5	0.88+0.04	8.5+0.4
SILVA THINS 100	F; SP; M	100MM	0.9418	34.2-36.7MM	10.7+0.3	0.89+0.03	8.3+0.4
SPRING 100	F; SP; M	100MM	1.0843	34.1-36.9MM	18.9+0.3	1.05+0.04	16.3+0.5
ST. MORITZ 100	F; SP	100MM	1.0518	35.7-38.3MM	13.7+0.3	1.05+0.03	12.8+0.5
ST. MORITZ 100	F; SP; M	100MM	1.0550	35.3-38.0MM	14.3+0.3	1.07+0.04	13.4+0.4
TALL 120	F; SP	120MM	1.1852	36.6-39.0MM	19.8+0.5	1.49+0.03	19.3+0.8
TALL 120	F; SP; M	120MM	1.1856	37.0-39.9MM	16.7+0.8	1.29+0.07	17.5+1.1
TAREYTON	F; SP	85MM	1.0099	25.9-28.7MM	13.1+0.3	0.86+0.03	13.8+0.4
TAREYTON 100	F; SP	100MM	1.1665	33.8-36.2MM	13.5+0.2	0.93+0.03	15.1+0.3
TAREYTON LIGHTS	F; SP	85MM	0.8764	33.3-37.1MM	4.4+0.2	0.36+0.01	4.2+0.2
TAREYTON LONG LIGHTS 100	F; SP	100MM	1.1426	33.9-36.3MM	7.5+0.3	0.62+0.04	7.0+0.4
TRIUMPH	F; SP	85MM	0.8279	34.1-36.0MM	2.9+0.3	0.30+0.02	2.5+0.3
TRIUMPH	F; SP; M	85MM	0.8247	34.1-35.8MM	2.7+0.2	0.30+0.02	2.4+0.3
TRIUMPH 100	F; SP	100MM	0.9700	37.0-39.3MM	4.0+0.2	0.41+0.02	4.5+0.3
TRIUMPH 100	F; SP; M	100MM	0.9682	36.8-39.1MM	3.8+0.4	0.39+0.02	4.2+0.5
TRUE	F; SP	85MM	0.8218	31.8-33.8MM	4.8+0.2	0.41+0.02	4.4+0.3
TRUE	F; SP; M	85MM	0.8206	31.9-34.2MM	5.0+0.3	0.42+0.02	4.8+0.3
TRUE 100	F; SP	100MM	0.9851	33.8-36.0MM	7.8+0.3	0.62+0.03	8.5+0.4
TRUE 100	F; SP; M	100MM	0.9757	34.2-36.1MM	7.4+0.3	0.58+0.02	7.8+0.4
VANTAGE	F; SP	85MM	1.0460	32.0-34.2MM	9.7+0.2	0.71+0.02	11.9+0.4

1 F-filter; NF-non-filter; M-menthol; R-regular; HP-hard pack; SP-soft pack; mm-millimeter.
2 Average weight reported in grams per cigarette.
3 Range used in butt length because of variance of overwrap.
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.
6 Carbon Monoxide reported as milligrams per cigarette.
+ Tolerance shown is twice the standard deviation.
* Below the sensitivity of the method.
** See statement in text concerning Kool filter brands.

PM3001060390

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND TESTED	TYPE CODE	LNGTH TESTD	AVG. WEIGHT	BUTT LENGTH	TPM DRY	NICOTINE CONTENT	CARBON MONOXIDE
VANTAGE	F; SP; M	85MM	1.0723	32.5-34.0MM	9.2+0.4	0.67+0.03	11.9+0.5
VANTAGE 100	F; SP	100MM	1.2160	34.6-38.2MM	9.4+0.3	0.71+0.03	10.5+0.6
VANTAGE 100	F; SP; M	100MM	1.2412	36.9-39.8MM	9.3+0.3	0.72+0.02	10.6+0.4
VANTAGE ULTRA LIGHTS	F; SP	85MM	0.8910	32.2-34.6MM	4.7+0.2	0.43+0.02	5.9+0.2
VANTAGE ULTRA LIGHTS	F; SP; M	85MM	0.8712	32.7-34.9MM	4.6+0.2	0.40+0.01	5.8+0.3
VANTAGE ULTRA LIGHTS 100	F; SP	100MM	1.0656	36.1-38.2MM	5.0+0.2	0.45+0.02	5.7+0.4
VANTAGE ULTRA LIGHTS 100	F; SP; M	100MM	1.0236	35.4-39.2MM	5.1+0.2	0.44+0.03	6.8+0.4
VICEROY	F; SP	85MM	0.9059	28.3-30.1MM	16.2+0.3	0.94+0.03	15.7+0.5
VICEROY RICH LIGHTS	F; SP	85MM	0.9179	32.1-34.3MM	9.9+0.3	0.74+0.02	9.6+0.3
VICEROY RICH LIGHTS 100	F; SP	100MM	1.0851	39.0-41.1MM	10.5+0.4	0.78+0.02	11.3+0.4
VICEROY SUPER LONG 100	F; SP	100MM	1.0776	33.6-36.5MM	14.3+0.3	0.94+0.03	16.1+0.4
VIRGINIA SLIMS 100	F; SP	100MM	0.9500	34.5-36.3MM	14.3+0.4	0.93+0.02	12.3+0.4
VIRGINIA SLIMS 100	F; SP; M	100MM	0.9428	33.2-36.3MM	14.5+0.3	0.94+0.03	12.9+0.4
VIRGINIA SLIMS LIGHTS 100	F; HP	100MM	0.9672	39.0-40.4MM	7.7+0.4	0.57+0.03	7.4+0.4
VIRGINIA SLIMS LIGHTS 100	F; HP; M	100MM	0.9677	38.7-39.7MM	7.8+0.4	0.56+0.02	7.5+0.4
WINSTON	F; HP	80MM	0.9222	25.1-27.3MM	16.1+0.4	1.07+0.04	14.5+0.4
WINSTON	F; SP	85MM	0.9979	26.9-29.5MM	15.8+0.4	1.06+0.03	14.7+0.3
WINSTON 100	F; SP	100MM	1.1219	34.1-36.1MM	16.5+0.4	1.20+0.04	15.8+0.4
WINSTON INTERNATIONAL 100	F; HP	100MM	1.0528	34.2-35.6MM	15.5+0.4	1.10+0.03	13.5+0.4
WINSTON LIGHTS	F; SP	85MM	0.9448	32.8-34.9MM	8.4+0.3	0.65+0.02	8.3+0.3
WINSTON LIGHTS 100	F; SP	100MM	1.1306	36.0-38.9MM	11.5+0.3	0.83+0.02	13.1+0.5
WINSTON ULTRA LIGHTS	F; SP	85MM	0.8818	33.4-35.6MM	4.8+0.2	0.42+0.01	6.5+0.3
WINSTON ULTRA LIGHTS 100	F; SP	100MM	1.0857	36.0-38.8MM	5.3+0.3	0.45+0.02	6.6+0.5

1 F-filter; NF-non-filter; M-menthol; R-regular; HP-hard pack; SP-soft pack; mm-millimeter.
2 Average weight reported in grams per cigarette.
3 Range used in butt length because of variance of overwrap.
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.
6 Carbon Monoxide reported as milligrams per cigarette.
+ Tolerance shown is twice the standard deviation.
* Below the sensitivity of the method.
** See statement in text concerning Kool Ultra brands.

PM3001060391

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Tar)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON 100	100MM; FILTER; MENTHOL; (HARD PACK)	*	*	*
NOW	KING SIZE; FILTER; (HARD PACK)	*	*	*
NOW 100	100MM; FILTER; (HARD PACK)	*	0.1	*
BENSON & HEDGES	REG SIZE; FILTER; (HARD PACK)	1	0.1	2
CAMBRIDGE	KING SIZE; FILTER	1	0.1	1
CARLTON	KING SIZE; FILTER	1	0.1	2
CARLTON	KING SIZE; FILTER; MENTHOL	1	0.1	1
CARLTON 100	100MM; FILTER; (HARD PACK)	1	0.1	*
NOW	KING SIZE; FILTER	1	0.1	2
NOW	KING SIZE; FILTER; MENTHOL	1	0.1	1
KOOL ULTRA**	KING SIZE; FILTER; MENTHOL	2	0.1	1
NOW 100	100MM; FILTER; MENTHOL	2	0.2	1
KENT III	KING SIZE; FILTER	3	0.3	2
NOW 100	100MM; FILTER	3	0.3	2
TRIUMPH	KING SIZE; FILTER	3	0.3	3
TRIUMPH	KING SIZE; FILTER; MENTHOL	3	0.3	2
DORAL II	KING SIZE; FILTER	4	0.4	3
DORAL II	KING SIZE; FILTER; MENTHOL	4	0.4	3
ICEBERG 100	100MM; FILTER; MENTHOL	4	0.3	4
KENT III 100	100MM; FILTER	4	0.4	5
KOOL ULTRA 100**	100MM; FILTER; MENTHOL	4	0.4	3
MERIT ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	4	0.4	4
TAREYTON LIGHTS	KING SIZE; FILTER	4	0.4	4
TRIUMPH 100	100MM; FILTER	4	0.4	5
TRIUMPH 100	100MM; FILTER; MENTHOL	4	0.4	4
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; (HARD PACK)	5	0.4	5
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
CAMBRIDGE 100	100MM; FILTER	5	0.4	5
CARLTON 100	100MM; FILTER	5	0.4	6
CARLTON 100	100MM; FILTER; MENTHOL	5	0.4	6
MERIT ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	5
MERIT ULTRA LIGHTS 100	100MM; FILTER	5	0.4	6
SALEM ULTRA	KING SIZE; FILTER; MENTHOL	5	0.4	6
SALEM ULTRA 100	100MM; FILTER; MENTHOL	5	0.4	6
TRUE	KING SIZE; FILTER	5	0.4	4
TRUE	KING SIZE; FILTER; MENTHOL	5	0.4	5
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER	5	0.5	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	5	0.4	7

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Tar)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
WINSTON ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6
WINSTON ULTRA LIGHTS 100	100MM; FILTER	5	0.5	7
BRIGHT	KING SIZE; FILTER; MENTHOL	6	0.5	7
BRIGHT 100	100MM; FILTER; MENTHOL	6	0.5	7
CARLTON 120	120MM; FILTER	7	0.6	5
CARLTON 120	120MM; FILTER; MENTHOL	7	0.6	5
PALL MALL EXTRA LIGHT	KING SIZE; FILTER	7	0.6	7
TAREYTON LONG LIGHTS 100	100MM; FILTER	7	0.6	7
TRUE 100	100MM; FILTER; MENTHOL	7	0.6	8
BELAIR 100	100MM; FILTER; MENTHOL	8	0.6	7
CAMEL LIGHTS	KING SIZE; FILTER	8	0.7	10
KENT GOLDEN LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
KOOL LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	9
L & M LIGHTS	KING SIZE; FILTER	8	0.7	7
L & M LIGHTS 100	100MM; FILTER	8	0.8	6
MERIT	KING SIZE; FILTER	8	0.5	9
MERIT	KING SIZE; FILTER; MENTHOL	8	0.5	10
MORE LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	8
MORE LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
NEWPORT LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
SALEM SLIM LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.7	9
TRUE 100	100MM; FILTER	8	0.6	8
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	7
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
WINSTON LIGHTS	KING SIZE; FILTER	8	0.7	9
CAMEL LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.7	8
CENTURY LIGHTS	KING SIZE; FILTER	9	0.7	11
KENT GOLDEN LIGHTS	KING SIZE; FILTER	9	0.8	9
KENT GOLDEN LIGHTS 100	100MM; FILTER	9	0.8	10
KENT GOLDEN LIGHTS 100	100MM; FILTER; MENTHOL	9	0.8	9
KOOL LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	9
MERIT 100	100MM; FILTER; MENTHOL	9	0.7	11
NEWPORT LIGHTS	KING SIZE;FIL;MENTHOL; (HARD PACK)	9	0.7	9
OLD GOLD LIGHTS	KING SIZE; FILTER	9	0.8	10
PALL MALL LIGHT 100	100MM; FILTER	9	0.7	9
PARLIAMENT LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.6	9
PARLIAMENT LIGHTS	KING SIZE; FILTER	9	0.6	9
RALEIGH LIGHTS 100	100MM; FILTER	9	0.7	9
SALEM LIGHTS	KING SIZE; FILTER; MENTHOL	9	0.7	11
SALEM LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	11
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VANTAGE	KING SIZE; FILTER; MENTHOL	9	0.7	12
VANTAGE 100	100MM; FILTER	9	0.7	11

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Tar)

BRAND NAME	TYPE	TAR [1]	NICOTINE [2]	CARBON MONOXIDE [3]
VANTAGE 100	100MM; FILTER; MENTHOL	9	0.7	11
BELAIR	KING SIZE; FILTER; MENTHOL	10	0.7	9
BENSON & HEDGES LIGHTS 100	100MM; FILTER	10	0.7	11
BENSON & HEDGES LIGHTS 100	100MM; FILTER; MENTHOL	10	0.7	10
KOOL MILDS	KING SIZE; FILTER; MENTHOL	10	0.7	11
LUCKY STRIKE	KING SIZE; FILTER	10	0.8	10
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER	10	0.7	11
MERIT 100	100MM; FILTER	10	0.7	12
NEWPORT LIGHTS 100	100MM; FILTER; MENTHOL	10	0.8	10
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER	10	0.9	11
VANTAGE	KING SIZE; FILTER	10	0.7	12
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
CAMEL LIGHTS 100	100MM; FILTER	11	0.8	14
KOOL MILDS 100	100MM; FILTER; MENTHOL	11	0.8	12
LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK)	11	0.8	10
LUCKY STRIKE 100	100MM; FILTER	11	0.9	10
SILVA THINS 100	100MM; FILTER	11	0.9	9
SILVA THINS 100	100MM; FILTER; MENTHOL	11	0.9	8
VICEROY RICH LIGHTS 100	100MM; FILTER	11	0.8	11
WINSTON LIGHTS 100	100MM; FILTER	11	0.8	13
EVE LIGHTS 100	100MM; FILTER	12	0.9	9
EVE LIGHTS 100	100MM; FILTER; MENTHOL	12	0.9	9
KENT	KING SIZE; FILTER; (HARD PACK)	12	0.9	11
KENT	KING SIZE	12	0.9	10
MULTIFILTER	KING SIZE; FILTER	12	0.8	10
MULTIFILTER	KING SIZE; FILTER; MENTHOL	12	0.8	10
NEWPORT RED	KING SIZE; FILTER; (HARD PACK)	12	0.9	13
PALL MALL LIGHT 100	100MM; FILTER; MENTHOL	12	1.0	11
PARLIAMENT LIGHTS 100	100MM; FILTER	12	0.8	11
PLAYERS	KING SIZE; FILTER; (HARD PACK)	12	0.8	11
PLAYERS	KING SIZE; FILTER; MENTHOL	12	0.8	11
DORADO	KING SIZE; FILTER	13	0.9	12
KENT 100	100MM; FILTER	13	1.0	11
L & M	KING SIZE; FILTER; (HARD PACK)	13	0.9	13
L & M	KING SIZE; FILTER	13	0.9	13
LARK LIGHTS	KING SIZE; FILTER	13	0.9	12
LARK LIGHTS 100	100MM; FILTER	13	1.0	13
PLAYERS 100	100MM; FILTER; (HARD PACK)	13	0.9	12
PLAYERS 100	100MM; FILTER; MENTHOL; (HARD PACK)	13	0.9	11
TAREYTON	KING SIZE; FILTER	13	0.9	14

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Tar)

BRAND NAME	TYPE	TAR [1]	NICOTINE [2]	CARBON MONOXIDE [3]
TAREYTON 100	100MM; FILTER	13	0.9	15
CENTURY	KING SIZE; FILTER	14	0.9	16
EVE LIGHTS 120	120MM; FILTER; (HARD PACK)	14	1.1	11
EVE LIGHTS 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	1.1	11
GALAXY	KING SIZE; FILTER	14	0.9	13
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	14	0.9	15
L & M 100	100MM; FILTER	14	1.0	13
LARK	KING SIZE; FILTER	14	0.9	13
NEWPORT RED	KING SIZE; FILTER	14	1.0	15
SARATOGA 120	120MM; FILTER; (HARD PACK)	14	0.9	13
SARATOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13
ST. MORITZ 100	100MM; FILTER	14	1.1	13
ST. MORITZ 100	100MM; FILTER; MENTHOL	14	1.1	13
VICEROY SUPER LONG 100	100MM; FILTER	14	0.9	16
VIRGINIA SLIMS 100	100MM; FILTER	14	0.9	12
VIRGINIA SLIMS 100	100MM; FILTER; MENTHOL	14	0.9	13
BENSON & HEDGES	KING SIZE; FILTER; (HARD PACK)	15	1.1	11
KENT 100	100MM; FILTER; MENTHOL	15	1.2	14
LARK 100	100MM; FILTER	15	1.0	15
MONTCLAIR	KING SIZE; FILTER; MENTHOL	15	1.0	15
PALL MALL 100	100MM; FILTER	15	1.1	15
RALEIGH	KING SIZE; FILTER	15	0.9	16
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	13
ALPINE	KING SIZE; FILTER; MENTHOL	16	0.9	14
BENSON & HEDGES 100	100MM; FILTER; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL	16	1.0	15
CAMEL	KING SIZE; FILTER; (HARD PACK)	16	1.1	15
CAMEL	KING SIZE; FILTER	16	1.1	14
KOOL	KING SIZE;FIL;MENTHOL;(HARD PACK)	16	1.1	15
KOOL	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO	KING SIZE; FILTER (HARD PACK)	16	1.0	14
MARLBORO	KING SIZE; FILTER	16	1.0	15
MARLBORO	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14
MARLBORO 100	100MM; FILTER	16	1.0	15
MORE 120	120MM; FILTER; MENTHOL	16	1.2	19
NEWPORT	KING SIZE;FIL;MENTHOL; (HARD PACK)	16	1.1	15
PICAYUNE	REG SIZE; NON-FILTER	16	1.0	12
RALEIGH 100	100MM; FILTER	16	1.0	17
RICHLAND	KING SIZE; FILTER	16	1.1	13
SALEM	KING SIZE; FILTER; MENTHOL	16	1.1	18

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

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Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Tar)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
SALEM 100	100MM; FILTER; MENTHOL	16	1.2	15
VICEROY	KING SIZE; FILTER	16	0.9	16
WINSTON	KING SIZE; FILTER; (HARD PACK)	16	1.1	14
WINSTON	KING SIZE; FILTER	16	1.1	15
WINSTON INTERNATIONAL 100	100MM; FILTER; (HARD PACK)	16	1.1	14
MORE 120	120MM; FILTER	17	1.2	20
NEWPORT	KING SIZE; FILTER; MENTHOL	17	1.2	17
OLD GOLD FILTER	KING SIZE; FILTER	17	1.3	18
PALL MALL	KING SIZE; FILTER	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER (HARD PACK)	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER; MENTHOL; (HARD PACK)	17	1.1	16
TALL 120	120MM; FILTER; MENTHOL	17	1.3	17
WINSTON 100	100MM; FILTER	17	1.2	16
HALF & HALF	KING SIZE; FILTER	18	1.3	17
MAX 120	120MM; FILTER	18	1.4	17
CHESTERFIELD	REG SIZE; NON-FILTER	19	1.2	11
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17
NEWPORT 100	100MM; FILTER; MENTHOL	19	1.5	20
SPRING 100	100MM; FILTER; MENTHOL	19	1.1	16
KOOL	REG SIZE; NON-FILTER; MENTHOL	20	1.2	14
OLD GOLD FILTER 100	100MM; FILTER	20	1.5	20
TALL 120	120MM; FILTER	20	1.5	19
CAMEL	REG SIZE; NON-FILTER	21	1.4	13
PHILIP MORRIS	REG SIZE; NON-FILTER	21	1.2	12
CHESTERFIELD	KING SIZE; NON-FILTER	22	1.5	13
ENGLISH OVALS	REG SIZE; NON-FILTER; (HARD PACK)	23	1.8	11
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16
PALL MALL	KING SIZE; NON-FILTER	23	1.3	15
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16
PLAYERS	REG SIZE; NON-FILTER; (HARD PACK)	25	1.9	15
RALEIGH	KING SIZE; NON-FILTER	25	1.4	16
OLD GOLD STRAIGHT	KING SIZE; NON-FILTER	26	1.6	17
PHILIP MORRIS COMMANDER	KING SIZE; NON-FILTER	26	1.6	14
BULL DURHAM	KING SIZE; FILTER	28	1.8	23
ENGLISH OVALS	KING SIZE; NON-FILTER; (HARD PACK)	28	2.1	14

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Nicotine)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON 100	100MM; FILTER; MENTHOL; (HARD PACK)	*	*	*
NOW	KING SIZE; FILTER; (HARD PACK)	*	*	*
BENSON & HEDGES	REG SIZE; FILTER; (HARD PACK)	1	0.1	2
CAMBRIDGE	KING SIZE; FILTER	1	0.1	1
CARLTON	KING SIZE; FILTER	1	0.1	2
CARLTON	KING SIZE; FILTER; MENTHOL	1	0.1	1
CARLTON 100	100MM; FILTER; (HARD PACK)	1	0.1	*
KOOL ULTRA**	KING SIZE; FILTER; MENTHOL	2	0.1	1
NOW	KING SIZE; FILTER	1	0.1	2
NOW	KING SIZE; FILTER; MENTHOL	1	0.1	1
NOW 100	100MM; FILTER; (HARD PACK)	*	0.1	*
NOW 100	100MM; FILTER; MENTHOL	2	0.2	1
ICEBERG 100	100MM; FILTER; MENTHOL	4	0.3	4
KENT III	KING SIZE; FILTER	3	0.3	2
NOW 100	100MM; FILTER	3	0.3	2
TRIUMPH	KING SIZE; FILTER	3	0.3	3
TRIUMPH	KING SIZE; FILTER; MENTHOL	3	0.3	2
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; (HARD PACK)	5	0.4	5
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
CAMBRIDGE 100	100MM; FILTER	5	0.4	5
CARLTON 100	100MM; FILTER	5	0.4	6
CARLTON 100	100MM; FILTER; MENTHOL	5	0.4	6
DORAL II	KING SIZE; FILTER	4	0.4	3
DORAL II	KING SIZE; FILTER; MENTHOL	4	0.4	3
KENT III 100	100MM; FILTER	4	0.4	5
KOOL ULTRA 100**	100MM; FILTER; MENTHOL	4	0.4	3
MERIT ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	5
MERIT ULTRA LIGHTS 100	100MM; FILTER	5	0.4	6
MERIT ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	4	0.4	4
SALEM ULTRA	KING SIZE; FILTER; MENTHOL	5	0.4	6
SALEM ULTRA 100	100MM; FILTER; MENTHOL	5	0.4	6
TAREYTON LIGHTS	KING SIZE; FILTER	4	0.4	4
TRIUMPH 100	100MM; FILTER	4	0.4	5
TRIUMPH 100	100MM; FILTER; MENTHOL	4	0.4	4
TRUE	KING SIZE; FILTER	5	0.4	4
TRUE	KING SIZE; FILTER; MENTHOL	5	0.4	5
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	5	0.4	7
WINSTON ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Nicotine)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
BRIGHT	KING SIZE; FILTER; MENTHOL	6	0.5	7
BRIGHT 100	100MM; FILTER; MENTHOL	6	0.5	7
MERIT	KING SIZE; FILTER	8	0.5	9
MERIT	KING SIZE; FILTER; MENTHOL	8	0.5	10
VANTAGE ULTRA LIGHTS 100	100MM; FILTER	5	0.5	6
WINSTON ULTRA LIGHTS 100	100MM; FILTER	5	0.5	7
BELAIR 100	100MM; FILTER; MENTHOL	8	0.6	7
CARLTON 120	120MM; FILTER	7	0.6	5
CARLTON 120	120MM; FILTER; MENTHOL	7	0.6	5
MORE LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	8
MORE LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
PALL MALL EXTRA LIGHT	KING SIZE; FILTER	7	0.6	7
PARLIAMENT LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.6	9
PARLIAMENT LIGHTS	KING SIZE; FILTER	9	0.6	9
TAREYTON LONG LIGHTS 100	100MM; FILTER	7	0.6	7
TRUE 100	100MM; FILTER	8	0.6	8
TRUE 100	100MM; FILTER; MENTHOL	7	0.6	8
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	7
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
BELAIR	KING SIZE; FILTER; MENTHOL	10	0.7	9
BENSON & HEDGES LIGHTS 100	100MM; FILTER	10	0.7	11
BENSON & HEDGES LIGHTS 100	100MM; FILTER; MENTHOL	10	0.7	10
CAMEL LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.7	8
CAMEL LIGHTS	KING SIZE; FILTER	8	0.7	10
CENTURY LIGHTS	KING SIZE; FILTER	9	0.7	11
KENT GOLDEN LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
KOOL LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	9
KOOL MILDS	KING SIZE; FILTER; MENTHOL	10	0.7	11
KOOL LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	9
L & M LIGHTS	KING SIZE; FILTER	8	0.7	7
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER	10	0.7	11
MERIT 100	100MM; FILTER	10	0.7	12
MERIT 100	100MM; FILTER; MENTHOL	9	0.7	11
NEWPORT LIGHTS	KING SIZE;FIL;MENTHOL; (HARD PACK)	9	0.7	9
NEWPORT LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
PALL MALL LIGHT 100	100MM; FILTER	9	0.7	9
RALEIGH LIGHTS 100	100MM; FILTER	9	0.7	9
SALEM LIGHTS	KING SIZE; FILTER; MENTHOL	9	0.7	11
SALEM SLIM LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.7	9
SALEM LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	11
VANTAGE	KING SIZE; FILTER	10	0.7	12

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Nicotine)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
VANTAGE	KING SIZE; FILTER; MENTHOL	9	0.7	12
VANTAGE 100	100MM; FILTER	9	0.7	11
VANTAGE 100	100MM; FILTER; MENTHOL	9	0.7	11
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
WINSTON LIGHTS	KING SIZE; FILTER	8	0.7	9
CAMEL LIGHTS 100	100MM; FILTER	11	0.8	14
KENT GOLDEN LIGHTS	KING SIZE; FILTER	9	0.8	9
KENT GOLDEN LIGHTS 100	100MM; FILTER	9	0.8	10
KENT GOLDEN LIGHTS 100	100MM; FILTER; MENTHOL	9	0.8	9
KOOL MILDS 100	100MM; FILTER; MENTHOL	11	0.8	12
L & M LIGHTS 100	100MM; FILTER	8	0.8	6
LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK)	11	0.8	10
LUCKY STRIKE	KING SIZE; FILTER	10	0.8	10
MULTIFILTER	KING SIZE; FILTER	12	0.8	10
MULTIFILTER	KING SIZE; FILTER; MENTHOL	12	0.8	10
NEWPORT LIGHTS 100	100MM; FILTER; MENTHOL	10	0.8	10
OLD GOLD LIGHTS	KING SIZE; FILTER	9	0.8	10
PARLIAMENT LIGHTS 100	100MM; FILTER	12	0.8	11
PLAYERS	KING SIZE; FILTER; (HARD PACK)	12	0.8	11
PLAYERS	KING SIZE; FILTER; MENTHOL	12	0.8	11
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VICEROY RICH LIGHTS 100	100MM; FILTER	11	0.8	11
WINSTON LIGHTS 100	100MM; FILTER	11	0.8	13
ALPINE	KING SIZE; FILTER; MENTHOL	16	0.9	14
CENTURY	KING SIZE; FILTER	14	0.9	16
DORADO	KING SIZE; FILTER	13	0.9	12
EVE LIGHTS 100	100MM; FILTER	12	0.9	9
EVE LIGHTS 100	100MM; FILTER; MENTHOL	12	0.9	9
GALAXY	KING SIZE; FILTER	14	0.9	13
KENT	KING SIZE; FILTER; (HARD PACK)	12	0.9	11
KENT	KING SIZE; FILTER	12	0.9	10
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	14	0.9	15
L & M	KING SIZE; FILTER; (HARD PACK)	13	0.9	13
L & M	KING SIZE; FILTER	13	0.9	13
LARK	KING SIZE; FILTER	14	0.9	13
LARK LIGHTS	KING SIZE; FILTER	13	0.9	12
LUCKY STRIKE 100	100MM; FILTER	11	0.9	10
NEWPORT RED	KING SIZE; FILTER; (HARD PACK)	12	0.9	13
PLAYERS 100	100MM; FILTER; (HARD PACK)	13	0.9	12
PLAYERS 100	100MM; FILTER; MENTHOL; (HARD PACK)	13	0.9	11
RALEIGH	KING SIZE; FILTER	15	0.9	16
SARATOGA 120	120MM; FILTER; (HARD PACK)	14	0.9	13

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Nicotine)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
SARATOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13
SATIN 100	100MM; FILTER	10	0.9	11
SILVA THINS 100	100MM; FILTER	11	0.9	9
SILVA THINS 100	100MM; FILTER; MENTHOL	11	0.9	8
TAREYTON	KING SIZE; FILTER	13	0.9	14
TAREYTON 100	100MM; FILTER	13	0.9	15
VICEROY	KING SIZE; FILTER	16	0.9	16
VICEROY SUPER LONG 100	100MM; FILTER	14	0.9	16
VIRGINIA SLIMS 100	100MM; FILTER	14	0.9	12
VIRGINIA SLIMS 100	100MM; FILTER; MENTHOL	14	0.9	13
BENSON & HEDGES 100	100MM; FILTER; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL	16	1.0	15
KENT 100	100MM; FILTER	13	1.0	11
KOOL	KING SIZE; FILTER; MENTHOL	16	1.0	14
L & M 100	100MM; FILTER	14	1.0	13
LARK 100	100MM; FILTER	15	1.0	15
LARK LIGHTS 100	100MM; FILTER	13	1.0	13
MARLBORO	KING SIZE; FILTER (HARD PACK)	16	1.0	14
MARLBORO	KING SIZE; FILTER	16	1.0	15
MARLBORO	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14
MARLBORO 100	100MM; FILTER	16	1.0	15
MONTCLAIR	KING SIZE; FILTER; MENTHOL	15	1.0	15
NEWPORT RED	KING SIZE; FILTER	14	1.0	15
PALL MALL LIGHT 100	100MM; FILTER; MENTHOL	12	1.0	11
PICAYUNE	REG SIZE; NON-FILTER	16	1.0	12
RALEIGH 100	100MM; FILTER	16	1.0	17
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	13
BENSON & HEDGES	KING SIZE; FILTER; (HARD PACK)	15	1.1	11
CAMEL	KING SIZE; FILTER; (HARD PACK)	16	1.1	15
CAMEL	KING SIZE; FILTER	16	1.1	14
EVE LIGHTS 120	120MM; FILTER; (HARD PACK)	14	1.1	11
EVE LIGHTS 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	1.1	11
KOOL	KING SIZE;FIL;MENTHOL;(HARD PACK)	16	1.1	15
NEWPORT	KING SIZE;FIL;MENTHOL; (HARD PACK)	16	1.1	15
PALL MALL	KING SIZE; FILTER	17	1.1	16
PALL MALL 100	100MM; FILTER	15	1.1	15
PHILIP MORRIS INTERNATIONAL	100MM; FILTER (HARD PACK)	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER; MENTHOL; (HARD PACK)	17	1.1	16
RICHLAND	KING SIZE; FILTER	16	1.1	13
SALEM	KING SIZE; FILTER; MENTHOL	16	1.1	18

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
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** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Nicotine)

BRAND NAME	TYPE	TAR [1]	NICOTINE [2]	CARBON MONOXIDE [3]
SPRING 100	100MM; FILTER; MENTHOL	19	1.1	16
ST. MORITZ 100	100MM; FILTER	14	1.1	13
ST. MORITZ 100	100MM; FILTER; MENTHOL	14	1.1	13
WINSTON	KING SIZE; FILTER; (HARD PACK)	16	1.1	14
WINSTON	KING SIZE; FILTER	16	1.1	15
WINSTON INTERNATIONAL 100	100MM; FILTER; (HARD PACK)	16	1.1	14
CHESTERFIELD	REG SIZE; NON-FILTER	19	1.2	11
KENT 100	100MM; FILTER; MENTHOL	15	1.2	14
KOOL	REG SIZE; NON-FILTER; MENTHOL	20	1.2	14
MORE 120	120MM; FILTER	17	1.2	20
MORE 120	120MM; FILTER; MENTHOL	16	1.2	19
NEWPORT	KING SIZE; FILTER; MENTHOL	17	1.2	17
PHILIP MORRIS	REG SIZE; NON-FILTER	21	1.2	12
SALEM 100	100MM; FILTER; MENTHOL	16	1.2	15
WINSTON 100	100MM; FILTER	17	1.2	16
HALF & HALF	KING SIZE; FILTER	18	1.3	17
OLD GOLD FILTER	KING SIZE; FILTER	17	1.3	18
PALL MALL	KING SIZE; NON-FILTER	23	1.3	15
TALL 120	120MM; FILTER; MENTHOL	17	1.3	17
CAMEL	REG SIZE; NON-FILTER	21	1.4	13
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16
MAX 120	120MM; FILTER	18	1.4	17
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17
RALEIGH	KING SIZE; NON-FILTER	25	1.4	16
CHESTERFIELD	KING SIZE; NON-FILTER	22	1.5	13
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16
NEWPORT 100	100MM; FILTER; MENTHOL	19	1.5	20
OLD GOLD FILTER 100	100MM; FILTER	20	1.5	20
TALL 120	120MM; FILTER	20	1.5	19
OLD GOLD STRAIGHT	KING SIZE; NON-FILTER	26	1.6	17
PHILIP MORRIS COMMANDER	KING SIZE; NON-FILTER	26	1.6	14
BULL DURHAM	KING SIZE; FILTER	28	1.8	23
ENGLISH OVALS	REG SIZE; NON-FILTER; (HARD PACK)	23	1.8	11
PLAYERS	REG SIZE; NON-FILTER; (HARD PACK)	25	1.9	15
ENGLISH OVALS	KING SIZE; NON-FILTER; (HARD PACK)	28	2.1	14

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Carbon Monoxide)

BRAND NAME	TYPE	TAR [1]	NICOTINE [2]	CARBON MONOXIDE [3]
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON 100	100MM; FILTER; (HARD PACK)	1	0.1	*
CARLTON 100	100MM; FILTER; MENTHOL; (HARD PACK)	*	*	*
NOW	KING SIZE; FILTER; (HARD PACK)	*	*	*
NOW 100	100MM; FILTER; (HARD PACK)	*	0.1	*
CAMBRIDGE	KING SIZE; FILTER	1	0.1	1
CARLTON	KING SIZE; FILTER; MENTHOL	1	0.1	1
KOOL ULTRA**	KING SIZE; FILTER; MENTHOL	2	0.1	1
NOW	KING SIZE; FILTER; MENTHOL	1	0.1	1
NOW 100	100MM; FILTER; MENTHOL	2	0.2	1
BENSON & HEDGES	REG SIZE; FILTER; (HARD PACK)	1	0.1	2
CARLTON	KING SIZE; FILTER	1	0.1	2
KENT III	KING SIZE; FILTER	3	0.3	2
NOW	KING SIZE; FILTER	1	0.1	2
NOW 100	100MM; FILTER	3	0.3	2
TRIUMPH	KING SIZE; FILTER; MENTHOL	3	0.3	2
DORAL II	KING SIZE; FILTER	4	0.4	3
DORAL II	KING SIZE; FILTER; MENTHOL	4	0.4	3
KOOL ULTRA 100**	100MM; FILTER; MENTHOL	4	0.4	3
TRIUMPH	KING SIZE; FILTER	3	0.3	3
ICEBERG 100	100MM; FILTER; MENTHOL	4	0.3	4
MERIT ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	4	0.4	4
TAREYTON LIGHTS	KING SIZE; FILTER	4	0.4	4
TRIUMPH 100	100MM; FILTER; MENTHOL	4	0.4	4
TRUE	KING SIZE; FILTER	5	0.4	4
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; (HARD PACK)	5	0.4	5
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
CAMBRIDGE 100	100MM; FILTER	5	0.4	5
CARLTON 120	120MM; FILTER	7	0.6	5
CARLTON 120	120MM; FILTER; MENTHOL	7	0.6	5
KENT III 100	100MM; FILTER	4	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	5
TRIUMPH 100	100MM; FILTER	4	0.4	5
TRUE	KING SIZE; FILTER; MENTHOL	5	0.4	5
CARLTON 100	100MM; FILTER	5	0.4	6
CARLTON 100	100MM; FILTER; MENTHOL	5	0.4	6
L & M LIGHTS 100	100MM; FILTER	8	0.8	6
MERIT ULTRA LIGHTS 100	100MM; FILTER	5	0.4	6
SALEM ULTRA	KING SIZE; FILTER; MENTHOL	5	0.4	6
SALEM ULTRA 100	100MM; FILTER; MENTHOL	5	0.4	6
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
** See statement in text concerning Kool Ultra brands.

Source: https://www.industrydocuments.ucsf.edu/docs/hxkk0001

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Carbon Monoxide)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER	5	0.5	6
WINSTON ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6
BELAIR 100	100MM; FILTER; MENTHOL	8	0.6	7
BRIGHT	KING SIZE; FILTER; MENTHOL	6	0.5	7
BRIGHT 100	100MM; FILTER; MENTHOL	6	0.5	7
L & M LIGHTS	KING SIZE; FILTER	8	0.7	7
PALL MALL EXTRA LIGHT	KING SIZE; FILTER	7	0.6	7
TAREYTON LONG LIGHTS 100	100MM; FILTER	7	0.6	7
VANTAGE ULTRA LIGHTS 100	100MM; FILTER; MENTHOL	5	0.4	7
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	7
WINSTON ULTRA LIGHTS 100	100MM; FILTER	5	0.5	7
CAMEL LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.7	8
KENT GOLDEN LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
MORE LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	8
MORE LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
NEWPORT LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
SILVA THINS 100	100MM; FILTER; MENTHOL	11	0.9	8
TRUE 100	100MM; FILTER	8	0.6	8
TRUE 100	100MM; FILTER; MENTHOL	7	0.6	8
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
BELAIR	KING SIZE; FILTER; MENTHOL	10	0.7	9
EVE LIGHTS 100	100MM; FILTER	12	0.9	9
EVE LIGHTS 100	100MM; FILTER; MENTHOL	12	0.9	9
KENT GOLDEN LIGHTS	KING SIZE; FILTER	9	0.8	9
KENT GOLDEN LIGHTS 100	100MM; FILTER; MENTHOL	9	0.8	9
KOOL LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	9
KOOL LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	9
MERIT	KING SIZE; FILTER	8	0.5	9
NEWPORT LIGHTS	KING SIZE;FIL;MENTHOL; (HARD PACK)	9	0.7	9
PALL MALL LIGHT 100	100MM; FILTER	9	0.7	9
PARLIAMENT LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.6	9
PARLIAMENT LIGHTS	KING SIZE; FILTER	9	0.6	9
RALEIGH LIGHTS 100	100MM; FILTER	* 9	0.7	9
SALEM SLIM LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.7	9
SILVA THINS 100	100MM; FILTER	11	0.9	9
WINSTON LIGHTS	KING SIZE; FILTER	8	0.7	9
BENSON & HEDGES LIGHTS 100	100MM; FILTER; MENTHOL	10	0.7	10
CAMEL LIGHTS	KING SIZE; FILTER	8	0.7	10
KENT	KING SIZE; FILTER	12	0.9	10
KENT GOLDEN LIGHTS 100	100MM; FILTER	9	0.8	10
LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK)	11	0.8	10
LUCKY STRIKE	KING SIZE; FILTER	10	0.8	10

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per cigarette.
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Carbon Monoxide)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
LUCKY STRIKE 100	100MM; FILTER	11	0.9	10
MERIT	KING SIZE; FILTER; MENTHOL	8	0.5	10
MULTIFILTER	KING SIZE; FILTER	12	0.8	10
MULTIFILTER	KING SIZE; FILTER; MENTHOL	12	0.8	10
NEWPORT LIGHTS 100	100MM; FILTER; MENTHOL	10	0.8	10
OLD GOLD LIGHTS	KING SIZE; FILTER	9	0.8	10
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
BENSON & HEDGES	KING SIZE; FILTER; (HARD PACK)	15	1.1	11
BENSON & HEDGES LIGHTS 100	100MM; FILTER	10	0.7	11
CENTURY LIGHTS	KING SIZE; FILTER	9	0.7	11
CHESTERFIELD	REG SIZE; NON-FILTER	19	1.2	11
ENGLISH OVALS	REG SIZE; NON-FILTER; (HARD PACK)	23	1.8	11
EVE LIGHTS 120	120MM; FILTER; (HARD PACK)	14	1.1	11
EVE LIGHTS 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	1.1	11
KENT	KING SIZE; FILTER; (HARD PACK)	12	0.9	11
KENT 100	100MM; FILTER	13	1.0	11
KOOL MILDS	KING SIZE; FILTER; MENTHOL	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER	10	0.7	11
MERIT 100	100MM; FILTER; MENTHOL	9	0.7	11
PALL MALL LIGHT 100	100MM; FILTER; MENTHOL	12	1.0	11
PARLIAMENT LIGHTS 100	100MM; FILTER	12	0.8	11
PLAYERS	KING SIZE; FILTER; (HARD PACK)	12	0.8	11
PLAYERS	KING SIZE; FILTER; MENTHOL	12	0.8	11
PLAYERS 100	100MM; FILTER; MENTHOL; (HARD PACK)	13	0.9	11
SALEM LIGHTS	KING SIZE; FILTER; MENTHOL	9	0.7	11
SALEM LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	11
SATIN 100	100MM; FILTER	10	0.9	11
VANTAGE 100	100MM; FILTER	9	0.7	11
VANTAGE 100	100MM; FILTER; MENTHOL	9	0.7	11
VICEROY RICH LIGHTS 100	100MM; FILTER	11	0.8	11
DORADO	KING SIZE; FILTER	13	0.9	12
KOOL MILDS 100	100MM; FILTER; MENTHOL	11	0.8	12
LARK LIGHTS	KING SIZE; FILTER	13	0.9	12
MERIT 100	100MM; FILTER	10	0.7	12
PHILIP MORRIS	REG SIZE; NON-FILTER	21	1.2	12
PICAYUNE	REG SIZE; NON-FILTER	16	1.0	12
PLAYERS 100	100MM; FILTER; (HARD PACK)	13	0.9	12
VANTAGE	KING SIZE; FILTER	10	0.7	12
VANTAGE	KING SIZE; FILTER; MENTHOL	9	0.7	12

1 "Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Carbon Monoxide)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
VIRGINIA SLIMS 100	100MM; FILTER	14	0.9	12
CAMEL	REG SIZE; NON-FILTER	21	1.4	13
CHESTERFIELD	KING SIZE; NON-FILTER	22	1.5	13
GALAXY	KING SIZE; FILTER	14	0.9	13
L & M	KING SIZE; FILTER; (HARD PACK)	13	0.9	13
L & M	KING SIZE; FILTER	13	0.9	13
L & M 100	100MM; FILTER	14	1.0	13
LARK	KING SIZE; FILTER	14	0.9	13
LARK LIGHTS 100	100MM; FILTER	13	1.0	13
NEWPORT RED	KING SIZE; FILTER; (HARD PACK)	12	0.9	13
RICHLAND	KING SIZE; FILTER	16	1.1	13
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	13
SARATOGA 120	120MM; FILTER; (HARD PACK)	14	0.9	13
SARATOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13
ST. MORITZ 100	100MM; FILTER	14	1.1	13
ST. MORITZ 100	100MM; FILTER; MENTHOL	14	1.1	13
VIRGINIA SLIMS 100	100MM; FILTER; MENTHOL	14	0.9	13
WINSTON LIGHTS 100	100MM; FILTER	11	0.8	13
ALPINE	KING SIZE; FILTER; MENTHOL	16	0.9	14
CAMEL	KING SIZE; FILTER	16	1.1	14
CAMEL LIGHTS 100	100MM; FILTER	11	0.8	14
ENGLISH OVALS	KING SIZE; NON-FILTER; (HARD PACK)	28	2.1	14
KENT 100	100MM; FILTER; MENTHOL	15	1.2	14
KOOL	REG SIZE; NON-FILTER; MENTHOL	20	1.2	14
KOOL	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO	KING SIZE; FILTER (HARD PACK)	16	1.0	14
MARLBORO	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14
PHILIP MORRIS COMMANDER	KING SIZE; NON-FILTER	26	1.6	14
TAREYTON	KING SIZE; FILTER	13	0.9	14
WINSTON	KING SIZE; FILTER; (HARD PACK)	16	1.1	14
WINSTON INTERNATIONAL 100	100MM; FILTER; (HARD PACK)	16	1.1	14
BENSON & HEDGES 100	100MM; FILTER; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL	16	1.0	15
CAMEL	KING SIZE; FILTER; (HARD PACK)	16	1.1	15
KOOL	KING SIZE;FIL;MENTHOL;(HARD PACK)	16	1.1	15
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	14	0.9	15
LARK 100	100MM; FILTER	15	1.0	15
MARLBORO	KING SIZE; FILTER	16	1.0	15
MARLBORO 100	100MM; FILTER	16	1.0	15
MONTCLAIR	KING SIZE; FILTER; MENTHOL	15	1.0	15

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2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
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TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD

(Increasing Order of Carbon Monoxide)

BRAND NAME	TYPE	TAR 1	NICOTINE 2	CARBON MONOXIDE 3
NEWPORT	KING SIZE;FIL;MENTHOL; (HARD PACK)	16	1.1	15
NEWPORT RED	KING SIZE; FILTER	14	1.0	15
PALL MALL	KING SIZE; NON-FILTER	23	1.3	15
PALL MALL 100	100MM; FILTER	15	1.1	15
PLAYERS	REG SIZE; NON-FILTER; (HARD PACK)	25	1.9	15
SALEM 100	100MM; FILTER; MENTHOL	16	1.2	15
TAREYTON 100	100MM; FILTER	13	0.9	15
WINSTON	KING SIZE; FILTER	16	1.1	15
CENTURY	KING SIZE; FILTER	14	0.9	16
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16
PALL MALL	KING SIZE; FILTER	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER (HARD PACK)	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER; MENTHOL; (HARD PACK)	17	1.1	16
RALEIGH	KING SIZE; NON-FILTER	25	1.4	16
RALEIGH	KING SIZE; FILTER	15	0.9	16
SPRING 100	100MM; FILTER; MENTHOL	19	1.1	16
VICEROY	KING SIZE; FILTER	16	0.9	16
VICEROY SUPER LONG 100	100MM; FILTER	14	0.9	16
WINSTON 100	100MM; FILTER	17	1.2	16
HALF & HALF	KING SIZE; FILTER	18	1.3	17
MAX 120	120MM; FILTER	18	1.4	17
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17
NEWPORT	KING SIZE; FILTER; MENTHOL	17	1.2	17
OLD GOLD STRAIGHT	KING SIZE; NON-FILTER	26	1.6	17
RALEIGH 100	100MM; FILTER	16	1.0	17
TALL 120	120MM; FILTER; MENTHOL	17	1.3	17
OLD GOLD FILTER	KING SIZE; FILTER	17	1.3	18
SALEM	KING SIZE; FILTER; MENTHOL	16	1.1	18
MORE 120	120MM; FILTER; MENTHOL	16	1.2	19
TALL 120	120MM; FILTER	20	1.5	19
MORE 120	120MM; FILTER	17	1.2	20
NEWPORT 100	100MM; FILTER; MENTHOL	19	1.5	20
OLD GOLD FILTER 100	100MM; FILTER	20	1.5	20
BULL DURHAM	KING SIZE; FILTER	28	1.8	23

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2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carbon Monoxide reported in milligrams per cigarette.
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